

Title (en)

Road shape estimating device, road shape estimating method and program

Title (de)

Straßenformeinschätzungsvorrichtung, Straßenformeinschätzungsverfahren und Programm

Title (fr)

Dispositif d'évaluation de la forme des routes, procédé et programme d'évaluation de la forme des routes

Publication

EP 2105708 B1 20131204 (EN)

Application

EP 09004261 A 20090325

Priority

- JP 2008087892 A 20080328
- JP 2008087902 A 20080328

Abstract (en)

[origin: EP2105708A2] A road shape estimating device has a data obtaining processing unit (31) that is adapted to obtain interpolation point data of a plurality of shape interpolation points (mi) which represent a shape of a road (r1-r10), a radius calculation processing unit (31) that is adapted to calculate a radius (R) of curvature at each of shape interpolation points (mi) based on the interpolation point data, a corner detection processing unit (31) that is adapted to detect a corner (cn1) based on the radius (R) of curvature, and a corner dividing processing unit (31) that is adapted to obtain segment lengths (Lc11) of segments between respective shape interpolation points (m5, m6) in the corner (cn1) and performing dividing of the corner (cn1) by a segment having a segment length (Lc11) equal to or larger than a threshold which is set corresponding to an average value of the respective segment lengths (Lc11). Since dividing of a corner (cn1) is performed by a segment having a segment length (Lc11) equal to or larger than the threshold, dividing of the corner (cn1) can be performed appropriately.

IPC 8 full level

B60W 10/10 (2012.01); **B60W 40/06** (2012.01); **B60W 40/072** (2012.01); **B60W 40/076** (2012.01); **G01C 21/32** (2006.01); **G06F 17/30** (2006.01)

CPC (source: EP US)

B60W 10/06 (2013.01 - EP); **B60W 10/10** (2013.01 - EP); **B60W 40/072** (2013.01 - EP); **B60W 40/076** (2013.01 - EP); **G01C 21/3819** (2020.08 - EP US); **G01C 21/3837** (2020.08 - EP US); **G01C 21/3844** (2020.08 - EP US); **B60W 2552/20** (2020.02 - EP); **B60W 2552/30** (2020.02 - EP); **B60W 2556/50** (2020.02 - EP)

Cited by

CN112762946A; CN111824163A

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 2105708 A2 20090930; EP 2105708 A3 20111130; EP 2105708 B1 20131204

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